

Title (en)
Magneto-optical recording medium

Title (de)
Magnetooptisches Speichermedium

Title (fr)
Support d'enregistrement magnétooptique

Publication
EP 0965987 A2 19991222 (EN)

Application
EP 99304698 A 19990616

Priority
JP 17348998 A 19980619

Abstract (en)
A recording layer and a flux adjustment layer have different magnetic polarities so that their magnetizations are countervailed at room temperature, with the result that a weakened leakage magnetic flux is released therefrom. A reproducing layer, a reproducing assist layer and an inplane magnetization layer exhibit in-plane magnetization at room temperature. In a first temperature area having a temperature not more than the critical temperature of the reproducing layer, the reproducing layer 1 exhibits in-plane magnetization so that magnetization of a recording magnetic domain is not copied to the reproducing layer. In contrast, a second temperature area having a temperature rise between the critical temperature and the Curie temperature of the reproducing layer, the flux adjustment layer and the in-plane magnetization layer have reached their Curie temperatures and lost their magnetization; thus, a leakage magnetic flux generated by the magnetization of the recording magnetic domain is copied to the reproducing assist layer that is in a perpendicular magnetization state, and further copied to the reproducing layer. Moreover, in a third temperature area having a temperature rise exceeding the Curie temperature of the reproducing layer, the reproducing layer has lost its magnetization. <IMAGE>

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G11B 11/10

IPC 8 full level
G11B 11/10 (2006.01); **G11B 11/105** (2006.01)

CPC (source: EP US)
G11B 11/10584 (2013.01 - EP US); **G11B 11/10593** (2013.01 - EP US); **G11B 11/10515** (2013.01 - EP US); **Y10S 428/90** (2013.01 - EP US)

Cited by
EP1331637A4; EP1260976A3; EP1233413A3; CN100458943C; EP1122726A3; EP1028424A4; EP1098306A3; EP1480210A4; US6678219B1; US6430116B1; US6632546B2; US6821642B2; US6808823B2; CN100405467C; EP1551008A3; US7768731B2; US7502188B2

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